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(19) **United States**(12) **Patent Application Publication****Li et al.**(10) **Pub. No.: US 2014/0328516 A1**(43) **Pub. Date: Nov. 6, 2014**(54) **GESTURE RECOGNITION METHOD, AN APPARATUS AND A COMPUTER PROGRAM FOR THE SAME**(75) Inventors: **Jiangwei Li**, Beijing (CN); **Kongqiao Wang**, Beijing (CN); **Lei Xu**, Beijing (CN)(52) **U.S. Cl.**CPC ..... **G06K 9/00355** (2013.01); **G06K 9/46** (2013.01); **G06K 9/4642** (2013.01); **G06K 9/4671** (2013.01)USPC ..... **382/103**(73) Assignee: **Nokia Corporation**, Espoo (FI)

(57)

**ABSTRACT**(21) Appl. No.: **14/361,372**(22) PCT Filed: **Dec. 1, 2011**(86) PCT No.: **PCT/CN2011/083298**

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The invention concerns a gesture recognition method for gesture-based interaction at an apparatus. The method comprises receiving one or more images of an object; creating feature images for the received one or more images; determining binary values for pixels in corresponding locations of said feature images and concatenating the binary values to form a binary string for said pixel; repeating the previous step for each corresponding pixel of said feature image to form a feature map and forming a histogram representation of the feature map. The invention also concerns an apparatus and a computer program.

